

## ASMY-CWG0 Low-Power 2216 DFN2 Surface-Mount LED

## **Description**

Broadcom tests parts at the absolute maximum rated conditions recommended for the device. The actual performance that you obtain from Broadcom<sup>®</sup> parts depends on the electrical and environmental characteristics of your application, but will probably be better than the performance outlined in the table.

Table 1: Reliability Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
High Temperature Operating Life	JESD22-A108	T <sub>A</sub> = 100°C, I <sub>F</sub> = 8 mA for 1000 hours	56	0
Low Temperature Operating Life	JESD22-A108	$T_A = -40$ °C, $I_F = 25$ mA for 1000 hours	56	0
Temperature Humidity Operating Life	JEITA ED- 4701/ 100 102	$T_A = 60$ °C, 90% RH, $I_F = 25$ mA for 500 hours	56	0
Temperature Cycle	JESD22-A104	-40°C/100°C, 30-minute dwell, 5-minute transfer, 100 cycles	336	0
High Temperature Storage Life	JESD22-A103	T <sub>A</sub> = 100°C for 1000 hours	56	0
Low Temperature Storage Life	JESD22-A119	$T_A = -40$ °C for 1000 hours	56	0
Temperature Humidity Storage Life	JEITA ED- 4701/ 100 103	T <sub>A</sub> = 60°C, 90% RH for 1000 hours	56	0
Pulse Test	JESD22-A108	T <sub>A</sub> = 25°C, frequency = 1 kHz, peak current = 100 mA, duty factor = 10% for 1000 hours	56	0
Solderability Test	J-STD-002	245°C for 5 seconds	28	0

NOTE: A failure is any LED that is open or shorted or that failed to emit light (except for the solderability test).

Broadcom ASMY-CWG0-RDS100

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